3rd Qrt SEM

# WASTE MANAGEMENT
# SURFACE EMISSION MONITORING
# CALIBRATION AND PERTINENT DATA

Date: 9.29.16 Site Name: Cottonwood Hills

**WEATHER OBSERVATIONS**

Wind Speed: 0-5 MPH Wind Direction: NNE Barometric Pressure: 29.5

Air Temperature: 61 deg F General Weather Conditions: Overcast / Cool

**CALIBRATION INFORMATION**

Pre-monitoring Calibration Precision Check

*Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 10% of the calibration gas value.*

Instrument ID: 30987664 Cal Gas Concentration: 500 ppm

| Trial | Zero Air Reading | Cal Gas Reading | (Cal Gas Conc. - Cal Gas Reading) |
|---|---|---|---|
| 1 | Ø | 502 | +2 |
| 2 | Ø | 498 | 2 |
| 3 | Ø | 499 | 1 |

Average Difference: 1

Calibration Precision = Average Difference/Cal Gas Conc. X 100%

0.2

Post-monitoring Calibration Check

Zero Air Reading: Ø ppm Cal Gas Reading: 501 ppm

**BACKGROUND CONCENTRATION CHECKS**

Upwind Location Description: N. Access Rd. Reading: 3.63 ppm

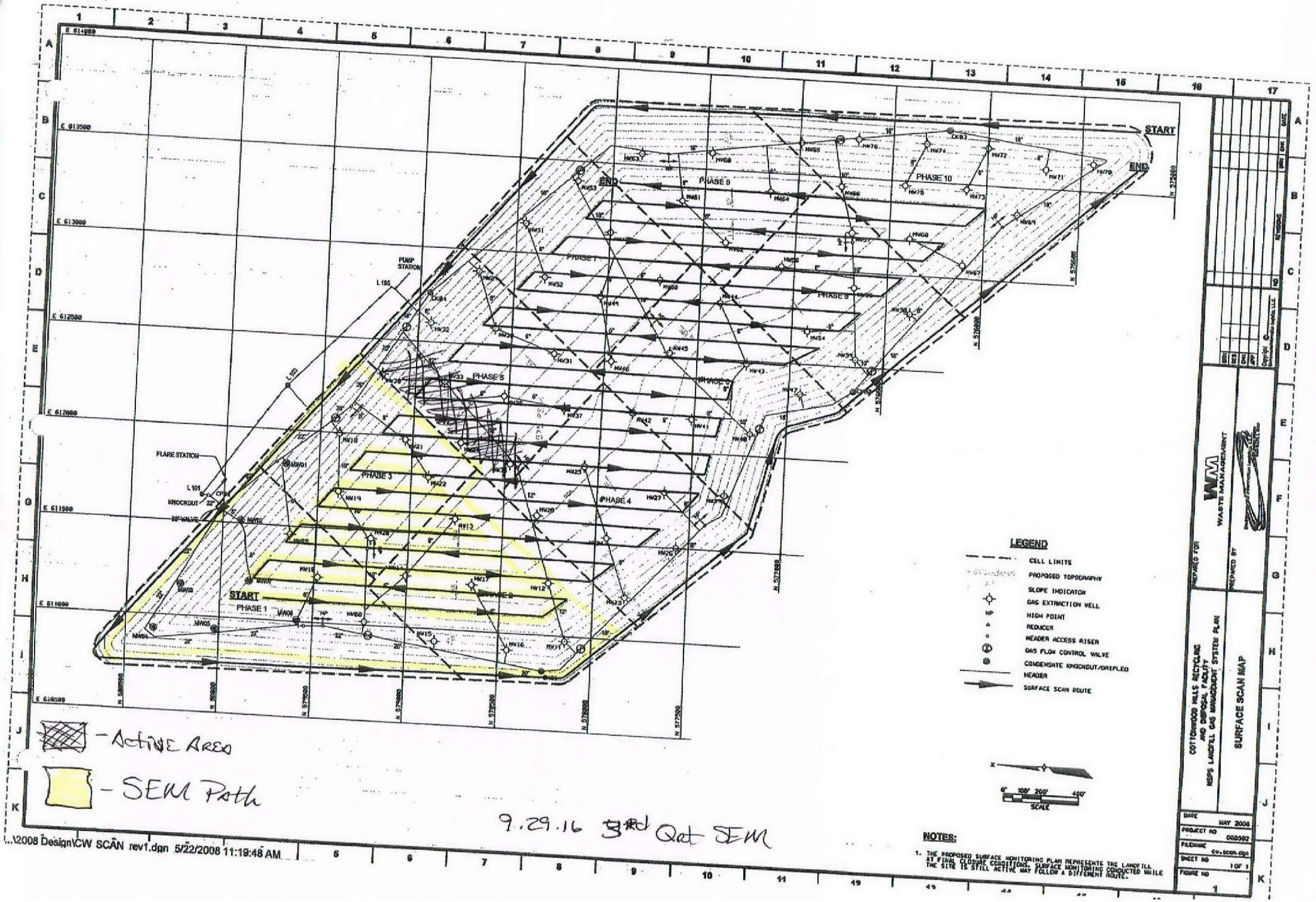
Downwind Location Description: S. Access Rd. Reading: 13.77 ppm

**NOTES:**

GCCS construction on SW corner of site.

Nothing over 280 ppm observed.

SEM Cal Form


START
END
PHASE 1
PHASE 2
PHASE 3
PHASE 4
PHASE 5
PHASE 6
PHASE 7
PHASE 8
PHASE 9
PHASE 10
PUMP STATION
FLARE STATION
LEGEND
CELL LIMITS
PROPOSED TOPOGRAPHY
SLOPE INDICATOR
GAS EXTRACTION WELL
HIGH POINT
REDUCER
HEADER ACCESS RISER
GAS FLOW CONTROL VALVE
CONDENSATE KNOCKOUT/DRIPLEG
HEADER
SURFACE SCAN ROUTE
- Active Area
- SEM Path
9.29.16 3rd Qrt SEM
NOTES:
1. THE PROPOSED SURFACE MONITORING PLAN REPRESENTS THE LANDFILL AT FINAL CLOSURE CONDITIONS. SURFACE MONITORING CONDUCTED WHILE THE SITE IS STILL ACTIVE MAY FOLLOW A DIFFERENT ROUTE.
COTTONWOOD HILLS RECYCLING AND DISPOSAL FACILITY
NSPS LANDFILL GAS MANAGEMENT SYSTEM PLAN
SURFACE SCAN MAP
PREPARED FOR
PREPARED BY
WASTE MANAGEMENT
DATE MAY 2008
PROJECT NO 060302
FILENAME cw-scan.dgn
SHEET NO 1 OF 1
FIGURE NO 1
...\2008 Design\CW SCAN rev1.dgn 5/22/2008 11:19:48 AM

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